



COLORADO SPRINGS,
COLORADO

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OCTOBER 1995



Amateur Radio News Service

Pikes Peak Radio Amateur Association, Inc.
P. O. Box 16521
Colorado Springs, Colorado 80935

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Ø BEAT



Pikes Peak Radio Amateur Association Officers and Directors

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Vice-President—	Rick Brown	KD0SU	3248 Squaw Valley Drive	80910	531-8423
Secretary—	Warren Hickey	W0YNE	12885 Tia Lane	80908	485-0471
Treasurer—	Ron Deutch	NK0P	4306 Ridgeline Drive	80910	583-2322
Board Member—	Ora Marie Ross	N8QJX	5214 Colter Lane	80910	601-5786
Board Member—	Jeff Ryan	N0WPA	5721 Northface Lane	80910	260-6526
Board Member—	Harry Russell	N0SFP	11716 Tracy Lane, Peyton	80831	749-0244
Board Member—	Jill Karneseld	AA0TH	P.O. Box 5880, Woodland Park	80884	687-5864
Ø-Beat Publisher—	Renay Boyes	K40ROY	2626 E. Bijou Street	80909	533-5650
Ø-Beat Publisher—	Jeff Boyes	N6JLH	2626 E. Bijou Street	80909	533-5650

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see last page of this publication. The Pikes Peak Radio Amateur Association meets monthly on the second Wednesday of each month at the Disabled American Veterans Hall, Chapter 26, 6580 Palmer Park Blvd. at 7 P.M.

Deadline for submission of articles or ads is the 20th of each month. Submissions may be sent directly to the Editor or to the club Post Office box. Permission is granted to reprint articles provided credit is given to both the author and this publication.

ADVERTISING RATES: Full page \$40; half page \$24; quarter page \$12; business card \$6. These are monthly rates and are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80935.

Committee Chairpersons

Publicity	Al Craig	594-9288
Membership	Les Borst	634-3995
Education	Al Bailey	597-8514
VE Testing	Erik Mugele	596-5345
Interference	Bill Petty	591-2116
RACES	Bryan Curl	390-5524
ARES	Mike Stansberry	636-1290
Skywarn	Steve Westby	570-1070
Public Service	Mike Stansberry	636-1290
CCARC	Cory Nelson	
Club Trailer	Harry Russell	749-0244
Ø-Beat Publishers	Renay & Jeff Boyes	633-5650
Club Historian	Al Craig	594-9288
Programs	Rick Brown	531-8423
Swapfest	Harvey Hunter	597-8964
Finance	open	



Radio Exams

Radio Examinations are sponsored by the PPRAA on the 2nd Saturday of February, April, June, August, October, and December. Testing takes place at 9 A.M. at:

Denver Technical College(DTC)
225 South Union
Colorado Springs

Everyone is treated on a walk-in basis. Those wishing to take an examination should bring the following items:

1. \$5.90 (preferably a check or money order made out to ARRL/VEC) for any exam other than element 1A or 2.
2. Picture identification.
3. A copy of your current amateur radio license, and/or a copy of any examination credit you have as well as the signed original. **We keep the copies.**
4. A pen, pencils, and a calculator if you need one.

If you have any further questions please call Erik Mugele, KG0XE at 596-5345. Please do not call DTC, they only provide us the rooms for testing, and they do not have any further information concerning the testing.

Reminder — October Meeting

The next meeting of the PPRAA will be held on Wednesday, October 11th at the Disabled American Veterans Hall located at 6580 Palmer Park Blvd. The meeting starts at 7 PM. General elections will be held.



Diffs and Bits

For Sale:

Cushcraft R7 (10 - 40m) Perfect condition,
all cables. One year old. \$150.00.
Call Ginger NOOUD - 528-8381

For Sale:

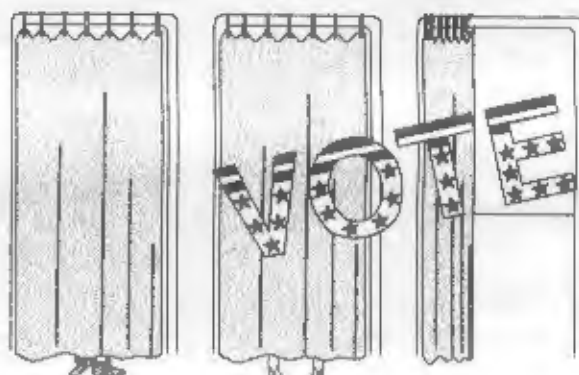
Icom 471A Multimode 430-450 MHz. AC
version, \$500.00
Icom 38A, 220 MHz FM, \$220.00
Kenwood TS-711 2M All Mode \$500.00
Kenwood TM401A, 440 MHz FM, \$150.00
Cushcraft 215WB, 13 element beam for 2M
SSB, \$50.00
KLM 452-20LBX, 20 element beam for 432
MHz SSB, \$50.00
Hy-Gain 4 element 6M antenna, \$25.00.
Call Al NOCMW - 520-3979.

Free To A Good Home:

Looking to start or complete a QST
collection? Call Jeff NOJLH - 633-5650.

ELECTION TIME

With the October meeting just around the corner, NOW is the time for members to submit nominations or volunteer for officer or board positions. Please contact any officer or board member listed on page 2. Elections are scheduled to be held at the October meeting.



Attention all PPRAA members!

Are you currently storing any Association property? If so, the PPRAA property custodian, Mike Slansberry K0TER, wants to know about it. Please give Mike a list of the property you are storing, as well as condition of the equipment.

EL PASO COUNTY ROUND TABLES

VHF Round Table - Tuesday evenings at 7:30 p.m. local time on 146.58 MHz.

HF Round Table - Sunday evenings at 7:30 p.m. local time on 3990.5 kHz.

Everyone is invited to join in the fun.

Fall Activities

Elections
Halloween
Fox Hunt



Fox Hunt!

Join in the fun the second Sunday of each month at 4:00 p.m. two miles east of Castle Rock. Meet at the Lutheran Church parking lot 1.5 miles south of Hwy. 86 on Ridge Road. Talk-in: 147.555 MHz simplex.

GENERAL MEMBERSHIP MEETING

September 13, 1995

The general membership meeting was open at 7:00 p.m. by the Vice President Rick Brown, KD0SU, upon determining a quorum of the membership was present. Members and guests introduced themselves. Several newly licensed amateurs were present.

The treasurer's report was given by Ron, NK0P. Last month's balance was \$4313.72, \$148 was deposited, and \$184.47 was paid out. This left a balance of \$4288.25. The report was approved. The minutes of the August 9, 1995 meeting, as published in the Ø-beat, were approved as written.

Committee Reports:

A.R.E.S. Liaison: Jeff, N0WPA, reported on A.R.E.S. activities. Jeff briefed the members on a 100 mile Bike Ride to be held on 17 Sep. A.R.E.S. Dist 15 needs 8 more people to help out. Jeff will sign those interested up during the break. Jeff reminded the members that the A.R.E.S. HF nets were held on 3928 Khz on Sunday morning, 8:30 local time. The VHF net is held on the 37/97 repeater on Tuesday night.

Public Service: Mike, K0TER, requested additional support for the Walk America to be held on Sun Sept 17, all those interested should see Luci, N0OUD during the break.

Interference: Bill Petty, N0HJX, had no new interference incidents to brief.

Ø-BEAT: Everyone was reminded everyone that the cutoff date for the next Ø-BEAT was September 20th.

Programs: Rick, N0SDU, announced the October club meeting topic will be Association elections.

Old Business:

Steve, K0CI thanked all who participated in the East Library Open House.

New Business:

Tim Armagost, WB0TUB and Marshall Quiat, AG0X, our Rocky Mountain Section Manager and Director presented Emergency Station Certificates to four of our members:

N6VTS, WA4SVJ, N0WPA and KB0KQH. Tim and Marshall then presented The "Amateur of the Year Award" to Mike Stansberry K0TER. Mike has been active at all levels of Amateur Radio. Congratulations Mike from all of us in the PPRAA.

John, N0KIC, passed out info on the World Wide Web Page for the Colorado Amateur Radio community. Information slips were available for those interested.

Doc, W0MCT, reminded everyone of the Sunday night net (1930 L) which will alternate frequencies every other Sunday. It will be on 28.825 Mhz this week and then on 3990.5 Khz the next week. These nets will use an informal roundtable format. There will also be a net on 146.58 simplex on Tuesday nite with the same format.

The Hammy Award was presented by Jeff, N0WPA, on behalf of N0UOD, to Cliff, N0ZUQ. Congratulation to a deserving Ham.

Next Board meeting will be held at Jeff's, N0WPA, house on Monday, Sept 18th at 7:00 p.m. If you intend to attend please let Jeff know.

Respectfully submitted by Warren, W0YNE, Secretary

Board Meeting Minutes September 18, 1995

The Board Meeting was opened at 1900 by the vice-president, Rick Brown, KD0SU at the home of Jeff, N0WPA. Members present were Rick, KD0SU; Ron, NK0P; Warren, W0YNE; Jeff, N0WPA; Jill, AA0TH; Harry, N0SFP; Ora Marie, N0QJX. Steve, K0CI was sitting in for Steve Westby.

Ø-BEAT: Everyone was reminded the deadline for the October issue would be 20 Sep.

Old Business:

Ron, NK0P requested the Board formalize the action with regard to an uncashed check in the amount of \$231.00. After a short discussion, a motion was made by Jeff, N0WPA and seconded by Ron to make one more attempt to contact the person to whom the check was written. If no response, the money will be paid

to the State IAW the tax laws. This was to be accomplished before the Oct deadline. The motion passed.

Rick spoke about the annual election to be held next month and the importance of having a pro-active Board. Anyone interested in running should put their name in nomination or contact a Board member.

The program for October will be the Election of 1995-1996 Officers. Nomination will be accepted from the floor in accordance with the Association's Bylaws.

New Business:

A representative from the Boy Scouts, Pikes Peak Council requested the PPRAA support at the Oct Jamboree-On-The-Air. It was moved by Harry and seconded by Jeff that we support the project. Harry accepted the chairmanship and will contact George Dixon from BSA.

Harry opened a discussion of the need for an annual audit of the Association's property. This is good business practice. Ron will contact the PPRAA's equipment custodian.

A motion was made by Ron and seconded to donate the remaining meat patties from the picnic to the Salvation Army. The motion passed.

PPRAA has received a letter making us a Member of the Tesla Society which entitles our members to a 10% discount on any Tesla Society material.

The Board discussed the need for a written survey of the wishes of the membership. This recommendation will be carried forth to the new Board at their first meeting.

PPRAA also received a letter from George Schmeht, W7LVU, which included a QSO card. He worked the Club station on Sept 24, 1994. He was formerly from the Springs and familiar with the group. The letter is available from Ron, NK0P for those interested in reading it.

The meeting was adjourned at 2024.

Respectfully Submitted by Warren, WOYNE.

Swapfest Alert!

The Rocky Mountain Radio League will hold its annual Hamfest in conjunction with the ARRL Colorado State Convention on Sunday October 22nd, 1995 from 8 am - 2 p.m. MST at the Jefferson County Fairgrounds, 15200 W. 8th Ave. (Indiana St. exit), Golden, CO.

Talk in will be on 145.22 MHz. (-600 kHz. w/103.5 Hz. OPTIONAL PL Tone).

Admission is \$4.00 (Includes one raffle ticket).

GRAND PRIZES:

Kenwood TM-733A Dual-Band Mobile FM Transceiver
Kenwood TH-22AT 2 meter Hand-held
Kantronics KPC-3 TNC
Daiwa CN-460M Cross Needle VHF/UHF Watt Meter

YOU DO NOT NEED TO BE PRESENT TO WIN GRAND PRIZES!! DRAWING WILL BE AT 2 P.M. Raffle proceeds for RMRL equipment upgrade and maintenance

SELLERS TABLES (Setup at 7 a.m.): \$10 PLUS Admission

ALSO:

Snack Bar
ARRL Forum (at 9 a.m.)
VE Testing (Starts PROMPTLY at 11 a.m.
ARRIVE EARLY FOR REGISTRATION & BRING A PHOTO I.D. AND A COPY OF YOUR CURRENT LICENSE, IF ANY!!!)

Those in Colorado should listen to the RMRL Net on Mondays at 8:30 p.m. on 146.94 for announcements of other activities at the Hamfest!!!

REGISTRATION INFORMATION:

Joe Dickenson, WT0C
P.O. Box 3821
Littleton, CO 80161
PH: 303-771-9577

Make check/money order payable to RMRL & return form and check NO LATER THAN October 15, 1995.

Amateur Radio on the Web

by rollerr@usa.net *

Can you remember when packet radio was the hottest craze in amateur radio? I think it's died down a bit recently. What's taken its place is what packet radio could be if it was faster. The Internet, that's what.

If you've never used the Internet before, what do you think of when someone talks about it? Well, it takes a computer, so you might think of a movie you've seen where a police detective or newspaper reporter sits down and types in a name. Up comes a complete history of that person - pictures, military records, criminal record. The whole time the computer is beeping as each letter scrolls across the screen. Well, let me tell you, the Internet is nothing like that at all. It's really hard to describe. The Information Superhighway fits, sort of, but it doesn't tell the whole story. It's almost like every company, organization and individual with a "page" on the "web" has a living, colorful billboard telling you everything you wanted to know about them. Let's stick to amateur radio stuff for now. Believe me, there's a lot more than ham radio on the Internet.

The web, or the World Wide Web as it's officially known, is a group of computers linked together which share information that can be in the form of text, graphics, sound, or movies. A "web page" is basically a text file that is transferred from the host computer to your computer over your data line and is interpreted by your web browser to produce the text and graphics you see in the examples on these pages. A web browser is software that transmits requests and receives data, displaying the pages you see here. Practically everything done over the web is done by you requesting different pages. One page might be a page from

Kenwood Communications Corp. Another page might be from an Internet search facility to help you find information about other topics besides ham radio. (Can't imagine what, but who cares!)

What can you find about ham radio? Well, what do you want to know? You name it, it's there. Check out different commercial outfits like Kenwood, QRZ, and Ham Radio Outlet. If you're into satellites, check out NASA, AMSAT, or the Shuttle Amateur Radio Experiment (SAREX) and get the latest satellite element sets. If you're into emergency communications check out a number of ARES groups with web pages (including Colorado ARES, as of September), FEMA, and the Red Cross. Or you can get the latest call sign information

directly from the FCC as well as from about a dozen other call sign servers. Need the latest ARRL information for VE exams, ARRL-affiliated clubs or swapfests? It's all here. Anything else you can think of? It's there, believe me!

You hear about the Internet through lots of different ways. There have been several articles on it in recent issues of QST. Ten-Ten International Inc is maintaining a list of their members that have Internet e-mail addresses. The Pikes Peak FM Association has a page on the web where you can get information. Did you know that a ham is trying to get a major emergency communications center started up in Denver? Probably wouldn't know about it unless you saw it on the web. Even the El Paso County ARES is distributing its callup roster via Internet e-mail. Lotsa things going on there so check it out as soon as you can. How? Read on ...

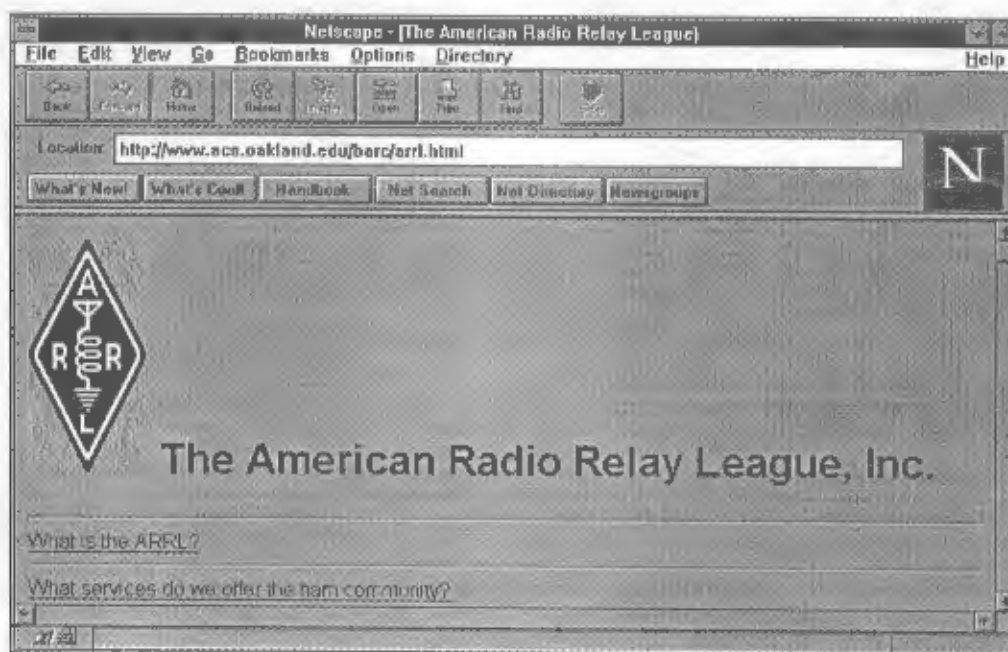
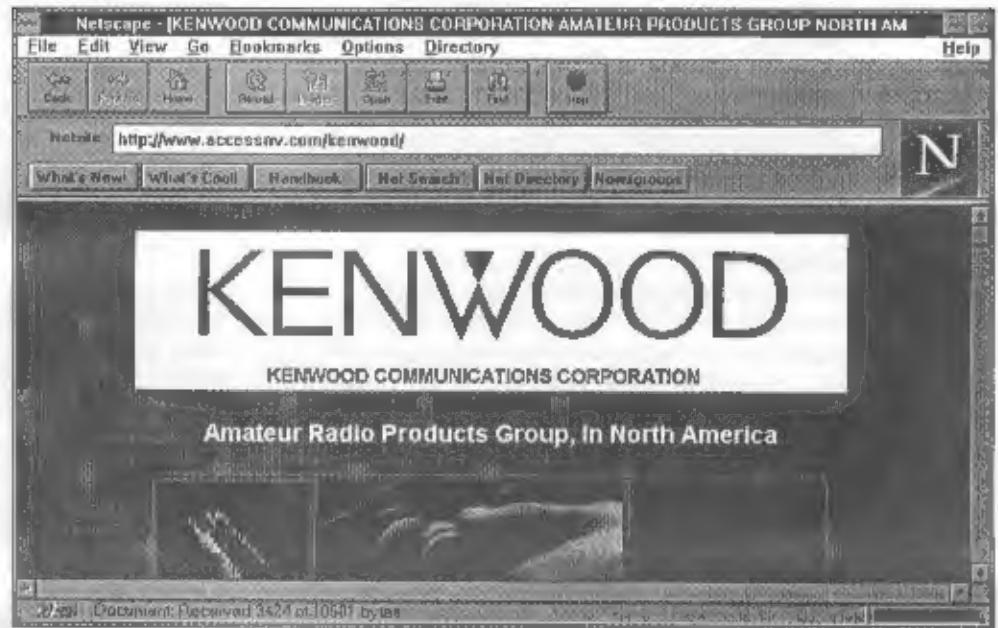
To get on the Internet you'll need to have access via an Internet services provider like America Online, Prodigy, Rocky Mountain Internet or Internet Express. There are many others. Rates vary considerably - so does what you get for what you pay. For example, America Online might charge \$9.95/mo and give you 10 free hours on the net, then you have to pay \$1 for each additional hour. But for \$25/mo you might be able to go to an ISP and get 50 free hours! Big difference, isn't it? Do some shopping around before you commit to avoid disappointment. I haven't met anyone yet that said 10 hours per month is adequate. You also get an e-mail account to keep in contact with your amateur friends. You'd might be surprised to find that at least a third of the people you know in ham radio have an Internet e-mail address - either through their office or via a personal account. Sometimes both. (That's my guess but I'll bet it's pretty close.)

* (WB7WHT, Rob Roller)

One of the things that make the Internet so fascinating is that when you do locate a web page that interests you, the page almost invariably has a list of other pages on the same subject. Each of those will also have a list of their favorite links to other pages, and so on. Before you know it you've found hundreds of other pages on the web related to your subject. You literally can't keep up with it!

I mentioned that packet radio could be used for the Internet, but only if several things happen. First of all, we've got to get the TNCs off of 1.2 Kbps and up to 14.4 Kbps minimum. More bandwidth! That's the minimum speed I'd want to spend on the Internet. I use 56 Kbps at the office and it's great! I'm sure there's others out there using T-1's and up (1.544 Mbps!) Secondly someone or some company is going to have to produce some software to allow today's web browsers to interface to your TNC instead of your modem. In addition there's going to have to be some server software developed so a packet station can provide the gateway between the "ether" and the phone line. But before something like this happens, there'll have to be changes in transmission methods to reduce collisions, maybe using some kind of spread spectrum techniques.

On the remote chance that those of you reading this already have access via Prodigy or America Online and have never checked out the web, start at these URLs: <http://www.rmso.com/hamradio/hamradio.html> or <http://www.hamradio.com/> or <http://www.acs.oakland.edu/barc/arrrl.html>. From any one of these you can find at least 50 other addresses, or Uniform Resource Locators (URLs) and zillions more shortly after that. In no time you'll be a bonafide cyberspace addict. Watch out for that Information Highway connect charge \$\$\$!



GERMAN REPEATER HEADED TO SPACE

A full blown open UHF FM voice repeater will soon be on the air from space! The Germans are putting it there. It's called Safex Two, and the first section of this repeater will be carried to the Russian MIR space station by German Cosmonaut Thomas Reiter, DF4TR. This, when he arrives on MIR for the European Space Agency's EUROMIR 95 mission that's scheduled to begin as this newscast goes to air. The rest of the system will be carried to MIR in the course of several missions over the next few months. The 70 centimeter space repeater, actually an FM transponder, was built by Thomas Kieselbach, DL2MDE. Initially it will be FM only with downlinks at 437.925, 437.950, and 437.975 MHz, and an uplinks in the lower part of the 435 MHz space communications subband. Safex Two will later be improved adding a 23 centimeter to 13 centimeter transponder, capable of broad bandwidth modes including fast scan ATV. The German design team has not announced a date when the Safex Two orbital repeater will come on line, but using it will not be the same as using your favorite local machine. While it will give coverage over hundreds if not thousands of miles, you will need the plenty of power and ability to computer track the MIR space station with a beam antenna in order to use it. Alternatively, hams might consider setting up gateway repeaters, FM repeaters on any band tied to other repeaters with the ability to track the MIR. This, so that any ham with a handheld can enjoy the soon to be on the air repeater in space. In the meantime, regular users of MIR can talk directly to DF4TR who will be on the air using the call sign DP0MIR on the normal 2 meter frequencies of Primary frequencies of 145.800, 145.550, and possibly 145.200 MHz. These frequencies were adopted as standard for MIR and SAREX shuttle activities at the IARU session of this year's AMSAT-UK Colloquium. QSLs for contacts with this mission will be handled via the usual German DARC QSL bureau.

FCC DOWNSIZES

The federal Communications Commission may downsize and close its monitoring stations. This could have a serious impact on Amateur Radio as we hear from Paul Courson WA3VJB in Washington:

The FCC may automate all nine of its monitoring stations across the country and run them by remote control from its facility near Washington. And personnel layoffs proposed by FCC Commissioner Reed Hunt would be another side affect of budget cutting in congress. Hunt told the Washington Post, He sees a mandate from lawmakers to make the agency smaller. Hunt would fire 180 workers under the plan and close a dozen regional and field offices by this time next year. If the downsizing is carried out, it would be the largest payroll reduction in the 51 year history of the FCC. But Hunt says even if the cuts in fact are carried out they might not last. He said telecommunications rules are changing. And that more people will eventually be needed to oversee those changes. He said as many as 80 additional responsibilities could come from the Telecom Legislation recently past by the House and Senate. The bill has yet to become law. At the same time the House has proposed freezing the commissions budget for next year. No word yet what the Senate might do with the FCC's budget. The issue faces lawmakers when they return from the August recess. But Hunt is acting on a worst case scenario in the meantime. He would close nine of twenty five local field offices responsible for resolving interference complaints. He would also close half the regional field offices of the FCC. Cutting Atlanta, Boston, and Seattle from the six the agency now has. As for the monitoring stations, the FCC Commissioner believes all nine can be operated remotely by the agencies main tracking facility at Gilford, Maryland. That is about fifteen miles outside of Washington. Hunt says he would preserve the enforcement workforce. While cutting jobs in public affairs and administration. The FCC in recent years has shied away from initial direct action on complaints in the amateur service. Directing reports instead to a volunteer core charged with building a case. It's not yet clear whether the FCC might distance further

from many intervention disputes on the ham bands. Leaving it up to hams themselves to settle things or put up with problems. Again, Chairman Hundt is talking about a worse case scenario. Only time will tell how far the downsizing will have to go.

OKLAHOMA HAMS PRAISED

Ham radio has received words of praise for its part in relief efforts following last spring's terrorist bombing of the federal building in Oklahoma City. Oklahoma Senator Don Nickles has entered into the Congressional Record a tribute to volunteers who helped in the aftermath of the April bombing of the Murrah Federal Building in Oklahoma City, including Amateur Radio operators. In his remarks, Nickles cites an outpouring of love, selfless effort, and resources. He says that the community is indebted to those volunteers who created a silver lining to the dark cloud of the tragedy. Specifically Nickles says that Amateur Radio operators provided an essential service to rescue operations. Within minutes of the attack, operators were on the scene providing an emergency communication network that allowed for the organization of supplies as well as firemen, policemen, and rescue crews from countless communities. Their contribution of 360 hours of service, Nickles says was made possible by donations from electronics companies such as the Oklahoma Community Communications Center. Senator Nickles's remarks were published in the August 11th Congressional Record.

HAPPY TOWER

And DXers with antenna problems will be happy to learn that not every tower is unwelcome. In fact, a tower raised to 100 feet over the small town of Wayland, Iowa, will benefit student hams at the town's school. The editor of Popular Communications Magazine has the details: "The tower erected at the school late last

month will support antennas for students who operate the school's amateur radio station, KB0SAL. The tower was obtained from state surplus two years ago when it was taken out of service. The tower was erected near the Junior-Senior High Building in Wayland, Iowa and joins two other towers supporting antennas currently used by the school ham station. Fred Haber, the school's Challenge Program coordinator planned and directed the project. Through the efforts of the Waco School District administrators and workers, permission was obtained to move the tower and its associated parts to the farm community of Wayland for use by the school ham station. With the new towers, student hams at the school will be able to broaden the access to the world in allowing them to meet and communicate with persons all over the world. Haber said a number of interdisciplinary projects involving students who are not hams also may be undertaken. Haber cited that the benefit of having foreign language students communicate with Spanish speaking hams in Central and South America. Or having students enhance their geography lessons real world links to other states and countries. He also sees cooperative class projects in cultural studies, weather, soil and water resources. The tower project actually became a community project in Wayland as residents with certain expertise helped with various stages of construction and the town's telephone company lent technical support from its staff. Adult hams from surrounding areas in Henry and Washington Counties pitched in as well as a half dozen student amateur operators. In addition to benefiting the students the new tower will also benefit southeast Iowa hams. Packet will be digipeated off of the tower once the equipment is setup." Chuck Gysi, N2DUP Chuck will have a complete wrap up on this story in an upcoming edition of Popular Communications Magazine.

Excerpted from NEWSLINE #942
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ARRL Bulletin 85
From ARRL Headquarters
Newington CT September 8, 1995
To all radio amateurs

The Federal Communications Commission has added three countries to the list of those with which the United States has an Amateur Radio reciprocal operating arrangement. They are Bosnia-Herzegovina, Croatia, and the Former Yugoslav Republic of Macedonia.

The FCC also has added the Republic of the Marshall Islands to the list of countries with which the US has a third-party traffic agreement.

A visitor to the US from a "reciprocal country" may obtain a permit valid for one year by sending a completed FCC Form 610-A application and a copy of his license to the FCC's Gettysburg, Pennsylvania office.

Complete lists of US third-party traffic countries and reciprocal operating arrangement countries are available by sending an SASE to ARRL Headquarters, or electronically through the sources listed in "How to Contact the ARRL" in each QST.



OM/YL LUNCH BUNCH

The next lunch meeting will be October 19 at the Country Buffet in the Citadel Crossing Shopping Center at 12:00 Noon.

73's
Rosie Calaway, WAØMNL
471-9965

ARRL Bulletin 86
From ARRL Headquarters
Newington CT September 12, 1995
To all radio amateurs

Long-time FCC Commissioner James H. Quello has opposed a proposal by Chairman Reed Hundt to close some Commission offices and reduce staff.

Quello said that while in principle he supports the idea of streamlining when possible, that he was "not prepared" to support Hundt's proposal, especially concerning staff reductions. "I am concerned," Quello said, "with the rushed timing of (Hundt's) administrative approach. I believe any reductions should have been discussed with Commissioners in advance of a one-day notice, particularly while Congress is in recess and some Commissioners are on vacation.

"In my view, any reorganization of this commission must take careful account of our core functions," Quello said, "and assure that their integrity is not compromised. I am not sure the plan described... will achieve this, particularly in light of the sharp disagreement that has arisen over the staffing and functions of the field offices of our Compliance and Information Bureau. In my opinion, there are other areas for reductions that do not involve the vital local public service of the Compliance and Information Bureau in numerous large cities.

"I will pay particularly close attention to assuring that those parts of the Commission that allocate the spectrum, safeguard its integrity, and license its use are not adversely impacted," Quello said.

The proposal would close three FCC regional offices, nine field offices, and all nine monitoring stations.

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Happy Halloween



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P.O. Box 16521
Colorado Springs, Colorado 80935

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Address _____

City _____ State _____ Zip _____

Call _____ License Class _____ Telephone _____

Are you an ARRL member? Yes _____ No _____

One year membership rates. (Year starts with the month you receive your first issue.)

Full Member \$15.00 _____ Family Membership (same address) \$18.00 _____

Over 65 \$12.00 _____ Family Both over 65 \$12.00 _____

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Additional Names: _____ Call _____ Class _____

IF THIS IS A RENEWAL PLEASE CHECK HERE: _____

PLEASE TYPE OR PRINT CLEARLY!

Please note: Please submit a completed application form along with your check to the treasurer. This applies to new membership as well as renewals. Thank you